COUNTY OR MUNICIPALITY WASHINGTON STATE DEPARTMENT OF APPROVAL FOR NATURAL RESOURCES ELVED SURFACE MININGAPR 19 2004

AUG 2 9 2003

(Form SM-6) Geology and Earth

A-10	In a				
NAME OF COMPANY OR INDIVIDUAL APPLICANT(S) Same as name of the exploration permit holder. (Type or print in ink.)	I (include all	acreage to o		ERMIT AREA mining, setbacks of the mine.) (S	
Delbert Field	Total area disturbed will be 49.09 acres				
perpert Freid	Maximum vertical depth below pre-mining topographic grade is				ic grade is
	Maximum depth of excavated mine floor is 11880 feet relative to mean sea level				80feet
	COUN	TY 5TE	VENS		
MAILING ADDRESS	No atta	chments will	be accepted.	Legal description	of permit area:
3422 Highway 231	1/4	1/4	Section	Township	Range
Valley, WA 99181	GOVT	от 3	2	30 N	40 E
	GOUT	LOT 4	2	30 N	40 E
	SW	NW	2	30 N	4CE
	SE	NW	2	30 n	40 E
Telephone (509) 937-4622					
Proposed subsequent use of site upon completion of reclamation					
TIMBERLAND					
_					
orginatare or company representation	title of compa ert Fi		ative (please)	print) Date	e signed
Wellet Field Owner		C14		8	14-03
TO BE COMPLETED BY THE APPROPRIATE COUNTY OR MUNICIPAL COUNTY OF M	CIPALITY:				
Please answer the following questions 'yes' or 'no'. 1. Has the proposed surface mine been approved under local zoni	ng and land-	use regulation	ne?		Yes No
Is the proposed subsequent use of the land after reclamation of				signation?	
When complete, return this form to the appropriate Departmer	nt of Natural I	Resources reg	ional office.		
Name of planning director or administrative official (please print)	Address		C 0 1	<u> </u>	
Lanci M. Anderson				Courthou - Courthou	use Annex
Jenni M Anderson	Street			4 99114	
			•		i
SpnniM Anders	Chan	ge of	acreage	reviewed	l on 4113104
Title (please print)	SOM	MINIL	Indersis	<u> </u>	l on 4113/04
Interim Planning Director	LFIC	uning o	emper vis	· · · ·	
Telephone Date				DNR Reclamatio	n Permit No.
509-684-2401 84103	FOR DEP	ARTMENT (JSE ONLY:	70.0	13029



APPLICATION FOR RECLAMATION PERMIT FORM SM-8A

Check ap	propria	te box(es): 🛛	new pern	nit	revision of ex	isting permit	nsion •		
NOTE: (SM8AII) template	NST.PDI). Do not atter	lete this fo npt to use	orm u this	ntil you have card form as an MS Wo	efully read the accompanying Also uction docum ord Template unless you are familiar wi ches e u Geology and Earth	nent ise of		
	OF APPLIC ent Field	CANT/PERMIT HO	LDER(S)		·	12. Are all of these mines now in compliance with RCW 78.44, WAC 332-18, and conditions of the permits?	🔀 yes		
2. MAILING ADDRESS 3422 Hwy 231					13. Have you ever had a surface mine operating or reclamation permit revoked?	☐ yes	Ø		
Valley, WA. 99181					Have you ever had a reclamation security forfeited? no If you answered yes to either of the above, list the permit num	yes properties:	⊠		
3. Telephone 509-937-4622 14 Ms UBI No. 601-236532 4. NAME OF MINE				14. Type of proposed or existing mine: ☐ pit ☐ material(s) to be mined: ☐ sand and gravel ☐ rock or st ☐ metal ☐ limestone ☐ other	tone 🔲	clay silica			
5. Street ad		nilepost of surface n	nine	上。	68 12	Deposit type: ⊠ glacial □ river flood □ river channel deposits □ talus □ bedrock □ lode □ other	plain (allu unki	viał) 10wn	
	oo Hwy 231 alley, WA. 99181 Other Other Other Other Is. Total Acreage and Depth of Permit Area: (Include all acreage to be disturbed by mining, setbacks, buffers activities during the life of the mine.) (See Form SM-6.)			ers, and as	sociated				
To			Total area disturbed will be 40.9 acres. Area to be disturbed in next 36 months will be 10 acres.						
						Maximum vertical depth below pre-mining topographic grade is 185 feet. Maximum depth of excavated mine floor is 1880 feet relative to mean sea level 16. Expected start date of mining 17. Estimated number of years			
i						9/01/03 30			
6. Distance 5	e (miles)	7. Direction from South	8. Neares Valley	st com	nunity	18. Total quantity to be mined over life of mine (estimated): 3,500,000 □ tons, or □ cu yds □ tons	×	tons, or cu yds	
9. COUNT No attachm	TY <u>Sit</u> nents will be	e accepted. Legal De Section	escription of p		area: Range	20. Subsequent land use: industrial commercial agricultural forestry wetland: Other			
	Govt Lot 4	2	30N		40E	Reclaimed elevation of floor of mine: 1900 feet relative to m	nean sea le	vel	
	Govt Lot 3	2	30N		40E		⊠ yes	no no	
SW SE	NW NW	2	30N 30N		40E 40E	Subsequent land use is compatible with County or Municipal comprehensive plan?	⊠ yes	no no	
				FOR		County or Municipality Approval for Surface Mining (Form SM-6) attached?	X yes	no no	
(include all activities d	l acreage to uring the lif	DE OF PERMIT AR be disturbed by min fe of the mine.)	ing, setbacks,	buffer	rs, and associated		🗶 yes	no	
11. Do you	or any per	son, partnership, or o	corporation as	ssociat	ed with you now	If any answers are no, explain:			
		the above, please lis			☐ yes ⊠ no	RECEIVED			
ii you ansv	Permit Nu		Active Operatio		Reclamation current/complete? Yes No	APR 1 5 2004		11	
	4					Geology and Earth			
			吊上			21. Application fee for a new reclamation permit is herewith	attached?	по	

22. SEGMENTAL RECLAMATION	
Permit area has been divided into segments for mining and a mining schedule has been developed?	⊠ yes □ no
If no, explain:	
,	
Permit area has been divided into segments for reclamation and a reclamation schedule has been developed?	🛛 yes 🗌 no
If no, explain:	
23. SITE PREPARATION	
23A Permit and Disturbed Area Boundaries	
Boundary of the permit area has been marked on the ground with permanent boundary markers?	🗶 yes 🗌 no
Explain boundary markers: Corner markers are 5/8" rebar with ½" aluminum cap	
23B. Saving Topsoil, Subsoil, and Overburden for Reclamation	
Thickness of topsoil is <u>0-1</u> feet	
Thickness of subsoil is <u>0-50</u> feet	
Depth to bedrock is <u>0-50</u> feet	
Total volume of topsoil is 20,000 cubic yards	
Total volume of subsoil is 52,000 cubic yards	
Volume of stored topsoil/subsoil is 2.500 cubic yards and will require 1.5 acres for storage.	⊠ ves □ no
Storage areas are shown on maps and have been marked on the ground with permanent boundary markers?	yes no
Topsoil will be salvaged?	KA Aco IIIO
If no, explain:	
The 1 and an advantage will be marred to realism an adjacent depleted segment?	yes no
Topsoil and overburden will be moved to reclaim an adjacent depleted segment?	
If no, explain:	
Before materials are moved, vegetation will be cleared and drainage planned for soil storage areas?	yes no
	. ————————————————————————————————————
If no, explain:	
Soil storage areas will be stabilized with vegetation to prevent erosion if materials will be stored for more than	
one season?	🛛 yes 🗌 no
If no, explain:	
23C. Setbacks and Screens 23C. Setbacks and Screens 2150 feet (highest) to 1880 feet (lowest) elevation relative to	mean sea level
Maximum depth of the mine will be <u>270</u> feet from <u>2150</u> feet (highest) to <u>1880</u> feet (lowest) elevation relative to	
The standard for the self-self he 20 foot wilde	
The setback for this site will be 30 feet wide.	☐ yes ☒ no
Is a permanent, undisturbed buffer planned for this site? If no, explain: Reclamation will result in a recontoured slope with no impact on adjacent non-disturbed	- -
land owned by proponent.	
Setbacks are shown on maps and have been marked on the ground with permanent boundary markers?	yes 🛭 no
If no, explain: Npsetback will be necessary.	
A 100, CAPIMIN A FEBRUARIO CONTRACTOR OF THE CON	
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Does this site have a backfilling plan that addresses the protect	tion of adjacent property and now the final, stable		M
slopes are to be achieved?		☐ yes	⊠ no
If no, explain: Backfill will not be necessary			
The little at the			
23D. Buffers to Protect Streams and Flood Plains No Str	eams Inite Mines " This document is included in the SM	RAINST PI	F file
If yes, see "Additional Information Requirements for Flood Pl	aun mines. Inis accument is included in the SM	yes	no no
A stream buffer of at least 200 feet has been marked on the gr	been morked on the ground with normanent	I L. yes	און אַאַ
A buffer of at least 200 feet from the 100-year flood plain has	been marked on the ground with permanent	☐ yes	no no
boundary markers?		☐ yes	KZI IIO
If no, explain: No Streams			
Copy of Shoreline Permit from local government or the Dept of	of Ecology is attached?	yes	X no
Hydraulic Project Approval from the Department of Fish and	Wildlife is attached?	ves	no
23E. Conservation Buffers	TT HOME IS BEHAVIOU.	<u>, — , </u>	
Conservation buffers will be established for the following pur	nose(s): (Check all that apply)		
unstable slopes wildlife habitat	water quality other		
unstable slopes whome habitate [
Describe the nature and configuration of the conservation buff	fer(s): No special sites, unique habitat or water	quality issu	ies within
the permit area.		-	
and because as any			
Conservation setbacks are shown on maps and have been mar	ked on the ground with permanent boundary		6 71
markers?		yes yes	⊠ no
23F. Ground Water			
High water table depth is feet relative to mean sea le	evel, \bigsqcup below original surface, or \boxtimes unknown.		
	, T 1 1		
Low water table depth is feet _ relative to mean sea le	evel, \square below original surface, or \bowtie unknown.		
	4a faat on		
Annual fluctuation of water table is from feet on	to teet on		
D:			
Direction of ground water flow:			
A11 lane attached?		yes	N no
Are well logs attached?		yes yes	⊠ no
Is the aquifer perched? Is the shallowest aquifer: \(\int \) confined \(\times \) unco	onfined	<u>, Lui / J</u>	_
15 the Shane west address.			
The site will be mined: wet dry both			
	•		
	•		
Describe mining method: Excavation of Quarry.	•		
	•		
	·		·
Describe mining method: Excavation of Quarry. The site is in a:			
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area sole source a	quifer		
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area sole source a		protection	
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area spec	quifer public water supply waters designated aquifer		area no
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydronal Informat	quifer public water supply waters designated aquifer	protection	
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydroincluded in the SM8AINST.PDF file.	quifer	protection	
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydronal Informat	quifer	protection	
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydroincluded in the SM8AINST.PDF file.	quifer	protection	
The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydroincluded in the SM8AINST.PDF file. If no, explain: Water is well below excavation limits at val	quifer public water supply waters cial protection area designated aquifer logically Sensitive Areas." This document is ley floor.	protection	
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydroincluded in the SM8AINST.PDF file. If no, explain: Water is well below excavation limits at val	quifer	protection yes	⊠ no
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydroincluded in the SM8AINST.PDF file. If no, explain: Water is well below excavation limits at value. 23G. Archeology Are archeological/cultural resource sites present?	quifer public water supply waters designated aquifer designated aquifer public water supply waters read protection area designated aquifer public water supply waters designated according to the public water supply waters are supply waters and supply waters designated according to the public water supply waters are supply waters and supply waters are supply waters and supply waters are supply wat	protection	
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydroincluded in the SM8AINST.PDF file. If no, explain: Water is well below excavation limits at val	quifer public water supply waters cial protection area designated aquifer logically Sensitive Areas." This document is ley floor.	protection yes	⊠ no
Describe mining method: Excavation of Quarry. The site is in a: critical aquifer recharge area wellhead protection area Ground water study attached? If yes, see "Additional Information Requirements for Hydroincluded in the SM8AINST.PDF file. If no, explain: Water is well below excavation limits at value. 23G. Archeology Are archeological/cultural resource sites present?	quifer public water supply waters designated aquifer designated aquifer public water supply waters read protection area designated aquifer public water supply waters designated according to the public water supply waters are supply waters and supply waters designated according to the public water supply waters are supply waters and supply waters are supply waters and supply waters are supply wat	protection yes	⊠ no

24. MINING PRACTICES TO FACILITATE RECLAMATION		
24A. Soil Replacement	- 	<u> </u>
Topsoil will be saved?	⊠ yes	∐ no
If no, explain:		
Up to 4 feet of topsoil and (or) subsoil will be restored?	🗶 yes	no
If no, explain:		•
II no, explain.		
Topsoil will be restored and seedbeds prepared as necessary to promote effective revegetation and to stabilize		
slopes and mine floor?	yes	∐ no
If "yes" give details, if "no", explain: Topsoil will be replaced, seeded, and planted with ponderosa pine		
seedlings.		
Subsoil will be replaced to an approximate depth of $\underline{1}$ feet on the pit floor and a depth of $\underline{1}$ feet on slopes.		
Topsoil will be replaced to an approximate depth of $\underline{1}$ feet on the pit floor and a depth of $\underline{1}$ feet on slopes.	I ∑1	П-:
Topsoil will be distributed evenly over the site?	⊠ yes	∐ no
If no, explain:		
If topsoil is in short supply, it will be strategically placed in depressions and low areas in adequate thickness to		
conserve moisture and promote revegetation?	⊠ yes	no no
If no, explain:		
m 1 111 and the conditions are not evaluated as day?	⊠ yes	По
Topsoil will be moved when conditions are not overly wet or dry?	KN 160	٠.٠٠ ســا
If no, explain:		
		,
Topsoil will be imported?	⊠ yes	∐ по
If yes, describe source. If no, explain: If Necessary, topsoil will be imported from adjacent field.		
Synthetic topsoil made from compost, biosolids, or other amendments will be used and (or) made on site to		
supplement existing topsoil?	☐ yes	🛛 no
If yes, explain:		
26 1 1 1 1 1 1 1 1 2 2 2 4 (an) ails are available are aire that could be used to supplement tonsail for		
Materials such as till, loess, and (or) silt are available on site that could be used to supplement topsoil for reclamation.	☐ yes	🛛 no
reclamation. RECEIVED	_ , - ,	_
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AFR 10 COOT		
Geology and Earth		N7
Silt from settling ponds or a filter press will be used for reclamation?	yes	⊠ no
If yes, explain:	6) 1	2767
Application for Reclamation Permit (Form SM-8A) Revised 12/01 Page 4 of 13 Reclamation Permit/App No.	3 ()	29

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CHECKLIST OF RECLAMATION STANDARDS

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Ge	ology and I	Earth
Settling pond clay slurries will be pumped or hauled to other segments for reclamation? If yes, explain:	yes	⊠ no
Topsoil will be replaced with equipment that will minimize compaction, or it will be plowed, disked, or ripped following placement? If no, explain:	∑ yes	□ no
Topsoil will be immediately stabilized with grasses and legumes to prevent loss by erosion, slumping, or crusting? If no, explain:	⊠ yes	no no
Topsoil stockpile areas are shown on maps and will be marked on the ground with permanent boundary markers to protect from loss? If no, explain:	⊠ yes	П по
Segmental topsoil removal and replacement is shown on maps? If no, explain:	⊠ yes	□ no
Topsoil salvage and replacement plan included? If no, explain:	⊠ yes	□ no
24B. Removal of Vegetation		
Vegetation will be removed sequentially from areas to be mined to prevent unnecessary erosion? If no, explain:	⊠ yes	□ no
Small trees and other transplantable vegetation will be salvaged for use in revegetating other segments? If yes, give details. If no, explain: Vegitation not suitable for transplanting.	yes	⊠ no
Wood and other organic debris will be: ☐ recycled ☐ removed from site ☐ chipped ☐ burned ☐ buried ☐ used to synth ☐ other (explain)	nesize topsoil	
Solid waste disposal, burning, and land use permits are attached? Will be obtaining at time of burning. Some coarse wood (logs, stumps) and other large debris will be salvaged for fish and wildlife habitats? If yes, give details. If no, explain: Not applicable to this site.	☐ yes	s 🗵 no
24C. Erosion control for Reclamation		
Pit floor will slope at gentle angles toward highwall, sediment retention pond, or proper drainage? If yes, give details. If no, explain: Pit will be sloped to control drainage.	⊠ yes	🗌 по

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	Geology and Earth
Revegetation, sheeting, and (or) matting will be used to protect areas susceptible to erosion? If yes, give details. If no, explain: Grass seeding will be don on all disturbed sites.	NA hes II ma
Water control systems used for erosion control during segmental reclamation will:	П М
Divert clean water around pit?	☐ yes ⊠ no ☐ yes ⊠ no
Trap sediment-laden runoff before it enters a stream? Result in essentially natural conditions of volume, velocity, and turbidity?	yes no
Handle a 25-year, 24-hour peak event?	⊠ yes 📙 no
(Have you attached calculation?)	☐ yes 🔯 no
Re removed or reclaimed?	☐ yes ⊠ no
If any answers are no, explain: Location of site and annual precipitation will result in essentially all run remaining on site and any flowing off site will filter through natural vegetation.	
Will any water control systems be removed upon final reclamation?	☐ yes 🗵 no
If yes, explain:	
II yes, explain.	
	• .
Water control measure will be established to prevent erosion of setbacks and neighboring properties?	☐ yes 🖾 no
If yes, give details. If no, explain: Not NEEDED.	
Storm-water conveyance ditches and channels will be lined with vegetation or riprap?	☐ yes ⊠ no
If yes, give details. If no, explain: Not applicable	
Natural and other drainage channels will be kept free of equipment, wastes, stockpiles, and overburder	? ☐ yes ⊠ no
If no, explain: No drainage channels on site	
25. RECLAMATION TOPOGRAPHY	
25A. Final Slopes	
Final slopes will be created using the cut-and-fill method?	☐ yes ⊠ no
Explain procedure to be used:	
	⊠ yes □ no
Slopes will be created by mining to the final slope using the cut method?	-
Explain procedure to be used: Mining will occur in a method to produce final slope angel through	
excavation.	
Clare will your in steenness?	⊠ yes □ no
Slopes will vary in steepness? If no, explain:	
13 no, explain.	

Slopes will have a sinuous appearance in both profile and plan view?	⊠ yes	no
If no, explain:		
as (1 . 1 . 1	⊠ yes	По
Large rectilinear (that is, right angle, or straight, planar) areas will be eliminated?	NA Acs	س ۱۱۷
If no, explain:		
Where reasonable, tracks of the final equipment pass will be preserved and oriented to trap moisture, soil, and	-	
seeds, and to inhibit erosion?	🛛 yes	no no
If no, explain:		
asp. Cl D		
25B. Slope Requirements for Pits and Overburden/Waste Rock Dumps (non-saleable products) If the mine is a quarry or in hard rock, skip to Quarry section(25C).		
Slopes will vary between 2 and 3 feet horizontal to 1 foot vertical or flatter, except in limited areas where		
steeper slopes are necessary to create sinuous topography and control drainage?	yes yes	no no
If no, explain:	-	
	T 2700	
For pits, slopes will not exceed 2 feet horizontal to 1 foot vertical except as necessary to blend with adjacent	∐ yes	∐ no
natural slopes?		
Give details:		
Slope stability analysis required?	yes	no
If ves. see "Additional Information Requirements for Mines with Potentially Unstable or Steep Slopes." This		
document is included in the SM8AINST.PDF file.		
Slope stability analysis provided by		
25C. Slope Requirements for Quarries and Hardrock Metal Mines		
If mine is a pit in unconsolidated materials covered by Section 25B, go to Section 25D		
Check the appropriate box(es)		
Slopes will not exceed 2 feet horizontal to 1 foot vertical. Slopes steeper than 1 foot horizontal to 1 foot vertical are an acceptable subsequent land use as confirmed on	Form SM-	6.
Hazardous slopes or cliffs are indigenous to the immediate area and already present a potential threat to human	n life. Pho	oto and
mans attached to document presence of cliffs.		
Geologic or topographic characteristics of the site preclude slopes being reclaimed at a flatter angle and are a	n acceptabl	le
subsequent land use as confirmed on Form SM-6.		
Slope stability analysis required?	∐ yes	⊠ no
If yes, see "Additional Information Requirements for Mines with Potentially Unstable or Steep Slopes." This		
document is included in the SM8AINST.PDF file.		
Slope stability analysis provided by Measures will be taken to limit access to the top and bottom of hazardous slopes?	yes	⊠ no
Describe measures, or if no, explain: Hazardous slopes do not exist on site and there is no public access to	-	
the site.		
Selective blasting will be used to remove benches and walls and to create chutes, buttresses, spurs, scree slopes,		
and rough cliff faces that appear natural?	□ VAC	⊠ no
a 1 1 16 - ambient Not applicable to this site	yes	⊠ no
Describe procedures, or if no, explain: Not applicable to this site.	yes	⊠ no
Describe procedures, or if no, explain: Not applicable to this site. APR 18 2994	☐ yes	⊠ no
Describe procedures, or if no, explain: Not applicable to this site.	yes	⊠ no

I Declamation blacting will be used to reduce the chille nivitival to a	a scree or rubble slope less than 2 feet		
Reclamation blasting will be used to reduce the entire highwall to a horizontal to 1 foot vertical?		☐ yes	🛛 no
Blasting plan is attached?	RECEIVED	yes yes	🛛 no 📗
If no, explain: Not applicable	Ann 4 a cont		
	APR 1 9 2004		
	Coclosy and Earth		67
Access to benches will be maintained for reclamation blasting?	Geology and Earth	∐ yes	⊠ no
If no, explain: Mining will occur o reclamation slope.			
Small portions of benches will be left to provide habitat for raptors	and other cliff-dwelling hirds?	ves	⊠ no
25D. Backfilling	und outer out of outer		
Slopes will require backfilling?		☐ yes	⊠ no
Depth of backfilling is feet.			
Slope stability compaction analysis required?		☐ yes	on 🗌
Compaction analysis provided by			
Backfilling plan and (or) permits are attached?		∐ yes	∐ no
If no, explain:			
Backfilling will be done with overburden material after topsoil has	been separated?	☐ yes	no
If no, describe composition and source of backfill material:		 •	
ii iio, dobolioo oompoolion and oo alaa			
Explain method of placement of fill:			
Locations of stockpiles are shown on maps and will be marked on	the ground with permanent boundary		
markers?	O		
		yes	no no
Will hackfill be imported?		yes yes	no no
Will backfill be imported? If yes, give volumes needed to meet reclamation plan:			
Will backfill be imported? If yes, give volumes needed to meet reclamation plan:			
Will backfill be imported? If yes, give volumes needed to meet reclamation plan:			
If yes, give volumes needed to meet reclamation plan:		☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps?		yes	
If yes, give volumes needed to meet reclamation plan:		☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps?		☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps?		☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain:	solids?	☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic	solids?	☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain:	solids?	☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic	solids?	☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain:	solids?	yes yes	no no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain: Backfilled slopes will be compacted?	solids?	☐ yes	no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain:	solids?	yes yes	no no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain: Backfilled slopes will be compacted?	solids?	yes yes	no no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain: Backfilled slopes will be compacted?	solids?	yes yes	no no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain: Backfilled slopes will be compacted? If yes, give details. If no, explain:	solids?	yes yes	 □ no □ no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain: Backfilled slopes will be compacted? If yes, give details. If no, explain: Will you be backfilling into water?	solids?	yes yes	no no no
If yes, give volumes needed to meet reclamation plan: Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain: Backfilled slopes will be compacted? If yes, give details. If no, explain:	solids?	yes yes	 □ no □ no
Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain: Backfilled slopes will be compacted? If yes, give details. If no, explain: Will you be backfilling into water? If yes, is slope stability analysis attached?	solids?	yes yes	 □ no □ no
Areas to be backfilled are shown on maps? If no, explain: All grading/backfilling will be done with clean, inert, non-organic If yes, give details. If no, explain: Backfilled slopes will be compacted? If yes, give details. If no, explain: Will you be backfilling into water? If yes, is slope stability analysis attached?	solids?	yes yes	 □ no □ no

25E. Mine Floors		
Flat areas will be formed into gently rolling mounds?	yes	⊠ no
If yes, give details. If no, Explain: Area will be reclaimed to a gentle slope.		
Mine floor will be gently graded into sinuous drainage channels to preclude sheetwash erosion during intense		—
precipitation?	∐ yes	⊠ no
If yes, give details. If no, explain: Area will have a gentle grade, which will preclude erosion problems.		
M. G. and other associated association of the hulldered allowed airmed on blacked to footer acceptation?	yes	⊠ no
Mine floor and other compacted areas will be buildozed, plowed, ripped, or blasted to foster revegetation?	∟ Jes	
If yes, give details. If no, explain: Site will be reclaimed with topsoil and replanted		•
25F. Lakes, Ponds, and Wetlands		
Is water currently present in the area or will the mining penetrate the water table?	yes	⊠ no
If no. go to Section 25G.		
Reclaimed areas below the permanent low water table in soil, sand, gravel, and other unconsolidated material		
will have a slope no steeper than 1.5 feet horizontal to 1 foot vertical?	☐ yes	no no
If yes, give details. If no, explain:		
1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
If not already present, soils, silts, and clay-bearing material will be placed below water level to enhance	yes	□no
revegetation?	L yes	
If yes, give details. If no, explain:		
Some parts of pond and lake banks will be shaped so that a person can escape from the water?	yes	no no
If yes, give details. If no, explain:		
A 1 11 was also account to desirable executions or compact will be provided to etabilize		
Armored spillways or other measures to prevent undesirable overflow or seepage will be provided to stabilize		
1. 1 1 1. motor and advances 0109007	ves	□ no
bodies of water and adjacent slopes?	☐ yes	☐ no
bodies of water and adjacent slopes? If yes, give details. If no, explain:	yes	no no
	☐ yes	no no
	yes	по
	yes	по
If yes, give details. If no, explain: Wildlife habitat will be developed, incorporating such measures as:		
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines?	□ yes	_ no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths?	yes	no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep?	☐ yes ☐ yes ☐ yes	no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas?	yes	no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep?	☐ yes ☐ yes ☐ yes	no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas?	☐ yes ☐ yes ☐ yes	no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas?	☐ yes ☐ yes ☐ yes	no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas?	☐ yes ☐ yes ☐ yes	no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas? Give details:	☐ yes ☐ yes ☐ yes	no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas? Give details:	☐ yes ☐ yes ☐ yes	no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas? Give details: Ponds or basins will: Be located in stable areas?	yes yes yes yes	no no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas? Give details: Ponds or basins will: Be located in stable areas?	yes yes yes yes	no no no no no
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas? Give details: Ponds or basins will: Be located in stable areas? Ponds or basins will:	yes yes yes yes	no no no no no

CHECKLIST OF RECLAIMATION STANDARDS		es		no
Spillways and outfalls will be protected (for example, rock armor) to prevent failure and exosion?	∟ У	C2		ii U
If any answers are no, explain:				
APR 1 9 2004				
· · ·				
Geology and Earth				
Proper measures will be taken to prevent seepage from water impoundments that could cause flooding outside			-	
the permitted area or adversely affect the stability of impoundment dams or adjacent slopes?	□ y	es		no
If yes, give details. If no, explain:				
If yes, give details. If no, explain.				
				
Written approval from other agencies with jurisdiction to regulate impoundment of water is attached?	∟ ју	es	Ш	no
If no, explain:				
25G. FINAL DRAINAGE CONFIGURATION	-			
Drainage will be capable of carrying the peak flow of the 25-year, 24-hour precipitation event (Data are	× X	es	П	no
available at DNR Region offices)	⊠ y	es	_	no
If yes, are calculations attached? If yes, give details. If no, explain: Final reclaimed site will have lower gradient slope than pre mining.	<i>,</i>		لاي	
If yes, give details. If no, explain: Final rectained site will have lower gradient stope than pre mining.				
Drainages will be constructed on each reclaimed segment to control surface water, erosion, and siltation?		/es	_	no
Clean runoff is directed to a safe outlet?		es	\boxtimes	no
If either yes, give details. If no, explain: Not necessary on this site.				
A Citation you, Bare dynamics of the first terms of				
			$\overline{\square}$	m -
Are these shown on maps?		ves	R	no
The grade of ditches and channels will be constructed to limit erosion and siltation?	L 3	yes		no
If yes, give details. If no, explain: No ditches or channels needed				
Natural-appearing drainage channels will be established upon reclamation?		yes	\boxtimes	no
If yes, give details. If no, explain: Slope will be a gentle grade.		•	_	
II yes, give details. If no, explain. Stope will be a gentle grade.				
26. SITE CLEANUP AND PREPARATION FOR REVEGETATION				
26A. Dealing with Hazardous Materials			K-2	
Hazardous materials are present at the mine site?	<u>↓</u> □.	yes	\boxtimes	no
If no, go to Section 25B	┸┯╌			
The final ground surface drains away from any hazardous natural materials?	□:	yes	Ш	no
If yes, give details. If no, explain:				
	<u> </u>	VPS		no
Plan for handling hazardous mineral wastes indigenous to the site is attached?		yes ves	+	no
If no, written approval from all appropriate solid waste regulatory agencies attached?	_ لــا ,	<i>j</i> c s	<u></u>	110
26B. Removal of Debris	\boxtimes	yes		no
All debris (garbage, 'bone piles', treated wood, old mining equipment, etc.) will be removed from the mine site?	Ħ.	yes yes	H	no
All sheds, scale houses, and other structures will be removed from the site?		yes	ш	110
If either answer is yes, give details. If no, explain: All equipment will be removed.				
			6	

27. REVEGETATION	ON		P	CEIVED
The mine site is i	n: 🛛 eastern Wa		15 gr. ve	
	western W	ashington		NPR 1 3 2004
The mine site is:	☐ wet	⊠ dry?		
i ne mine site is:	wei	⊠ uiy:	Ge	ology and Earth
The average prec	ipitation is 17`` per year	•		
Revegetation will start dur	ring the first proper grow	ing season (fall for grasses	and legumes, fall or late winter	
for trees and shrubs) follo	wing restoration of slope	es?		⊠ yes □ no
If yes, give details. If no,	explain: Grass seeding	will be done in the fall an	d tree planting in the spring.	
Test plots will be used to d	determine optimum vege	tation plans?		yes 🛛 no
The site will not be revege	etated because:			. 1.6
☐ It is a rural ar	rea with a rainfall exceed	ling 30 inches annually and	erosion will not be a problem (re	equires approval of
DNR).		wood to ak an that a stirre or	avagetation is not necessary	
☐ Demonstration	on piots and areas will be	e used to snow that active reapproved subsequent use of	evegetation is not necessary. f this surface mine.	
Kevegetation	is mappropriate for the	approved subsequent use of		
Explain:				
1				
Documentation is	attached?			□ ves □ no
27A. Recommended Pio				
In the Sections below che	ck the species that will b	e planted at your mine site		
* indicates nitros	gen-fixing species			
Western Washington Dr				
alfalfa*	Lupine*	clover*	orchard grass	
cereal rye	perennial rye	colonial bent grass	ponderosa pine shore pine	
creeping red fescue	red alder*	☐ Douglas fir ☐ other	☐ Shore pine	
ground cover	Shrubs	other		
Western Washington We	et Areas			
birdsfoot trefoil	sedges	☐ cedar	tubers	
cottonwood	wetland grasses	creeping red fescue	☐ willow	
red alder*	other			
T . W. 11 T	- A wood			
Eastern Washington Dry alder*	Areas grasses	□ alfalfa*	☐ juniper	
black locust	lodgepole pine	clover	lupine*	
deciduous trees	ponderosa pine	shrubs	deep-rooted ground cover	•
diverse evergreens	other		·	
Eastern Washington We	t Areas	□ ma=1a=	sedges	
alder*	cottonwood	∐ poplar ∏ willow	☐ scuges	
serviceberry other	tubers			
Give planting details (sten	ns/acres of trees and shru	ibs, see Forest Practices ma	anual; lbs/acre of grass, legume, o	or forb mixture):
450 Trees per acre - Pe	onderosa Pine			
Grass/Clover mix will be				
SEED AIK WILL	CONTAIN WHITE T	outch clover, timot	Hy, FESCUE & BROME	
			•	
			<u> </u>	0220

CHECKLIST OF RECLAMATION STANDARDS RECEIVED

Describe weed control plan: Weed free seed will be applied and all applicable state laws will be followed.	PR 1 9 2004
••	
Ge	ology and Earth
27B. Planting Techniques	
Revegetation at this site will require:	
Ripping and tilling?	yes in no
Blasting to create permeability?	yes no
Mulching?	
Irrigation?	yes 🗵 no
Fertilization?	yes no
Importation of clay- or humus-bearing soils? Other soil conditioners or amendments?	yes 🛛 no
Give details:	
Give details.	
Trees and shrubs will be planted in topsoil or in subsoil amended with generous amounts of organic matter?	☐ yes ⊠ no
If yes, give details. If no, explain: Organic matter will not be needed for pondarosa pine seedlings	
	:
14. have of trace and chember?	☐ yes ⊠ no
Mulch will be piled around the base of trees and shrubs?	yes no
High quality stock will be used? Trees and shrubs will be planted while they are dormant?	yes 🗌 no
Stock will be properly handled, kept cool and moist, and planted as soon as possible?	🔯 yes 🗌 no
Seeds will be covered with topsoil or mulch no deeper than one-half inch?	☐ yes 🛛 no
If any answers are no, explain: Grass seed does not require cover.	
If they who we not only only and they were the second of t	
28. FINAL CHECKLIST	yes no
All required maps are attached (See Instructions for detailed requirements)?	yes no
All required cross-sections are attached (See Instructions for detailed requirements)?	yes 🛛 no
Geologic map attached (if required)? All documents submitted have the date, the name and address of the permit holder, and the application number	
All documents submitted have the date, the hame and address of the permit holder, and the approximation	🔀 yes 🗌 no
on every page of the material? The plan contains predominantly relevant information?	yes no
Have you completed the SM-6 and has it been signed by the local jurisdiction?	🔀 yes 🗌 no
Have you provided the SEPA checklist?	🔀 yes 🗌 no
Have you provided a copy of the SEPA Determination (DNS, MDNS, or DS)?	yes 🗶 no
Have you attached photographs?	yes 🗵 no
Are additional supplemental studies included?	🗌 yes 🛭 no
If yes, check the appropriate box(es) below:	
Archeological Geohydrologic Backfill Slope stability	
Topsoil Flood plain Conservational Vegetation	
Other	
	☐ yes 🛛 no
Other permits required?	
If yes, check the appropriate box(es) below: Shoreline permit Water Discharge Permit Solid Waste Permit	
Shoreme permit	al
Air Quality Permit NPDS or General Discharge Permit Hydraunc Project Approv	
by Special of Conditional Cost Comme	

13003

When signed by the applicant and approved by the Department of Natural Resources, this document and the associated maps, cross sections, reclamation narrative, and other attachments will be the approved reclamation plan for this permit that the permit holder must follow. Significant variations from the approved reclamation plan may require that a new plan be submitted to the Department for approval.

The applicant shall be considered as the permit holder for this surface mine and shall be responsible for compliance with Chapter									
78.44 RCW, Chapter 332-18 WAC, the approved reclamation plan and attachments, and the conditions of the permit if issued by the									
Department of Natural F	Resources.								
I hereby agree to comply		Name and Title of Company Representative			itive	Date signed			
Signature of applicant or com	pany representative	(Plea	se print)		- : - : 1		0 1/00		
alletra	Fill		se primi Ibert OnCr	W.	41619		8-4-03		
SURFACE OWNERSHIP (For New Permits Only) OWERSHIP OF RIGHTS TO REMOVE			EMOVE M	INERALS BY					
Give names, addresses, and signatures of all individuals with possess		ssory							
interest in land.		_	Give names, addresses, and signatures of all individuals with rights.						
(attach signed copies of thi	is page if more than one)		(attach signed	l copies o	of this page if	more than or	ne)		
I verify that the applicant h	nas my permission to mine from my land	l .	I verify that th	ne applic	ant has my pe	rmission to r			
Signature of landowner(s)	Date Sign	ed	Signature of rig	ghts owne	r(s)		Date Signed		
kelbert av Fild 8-4-03		3	Relbet on Full 8.4-03						
I hereby verify that I have seen and approved this plan.			I hereby verif			approved thi	s plan.		
Signature of landowner(s) Date Signed			Signarure of rig	hts owne	r(s)		Date Signed		
hldbert en	8-4-0	3	k lather	7	2-11		8-4-03		
Cecord 500.	· sugar		152000	21 0		le a			
FOR DEPARTMENT.						D 1	· D · · › ·		
Date accepted A	Accepted by:	Title	:			Reclamat	ion Permit No.		
			-		****	<u> </u>		_	
Comments by Departrm	ent:								
}									

RECEIVED

APR 19 2004

Geology and Earth

13000

FIELD QUARRY PROJECT

DELBERT FIELD 3422 HIGHWAY 231 VALLEY, WASHINGTON 99181

RECEIVED
AUG 2 9 2003
Geology and Earth

PERMIT

PROJECT DESCRIPTION

This project is located on 40.09 acres in the Northwest quarter of Section 2, Township 30 North, Range 40 East, W.M. The site is approximately 5 miles south of Valley, Washington in Stevens County. This site falls within an unzoned portion of Stevens County. The purpose of the project is to quarry rock from the site for use off site on roads and construction projects. This purpose is consistent with land use planning for Stevens County. The topography of the site is a hilltop with moderate to steep slopes. The plan is to cut down the hilltop and grade the site to a gentle slope, which will meet the existing road locations and adjacent topography. This will be accomplished by removing the vegetation in stages as needed, removing the overburden and stockpiling it or reclaiming mined areas with it, drilling and blasting bedrock, removing shot rock and crushing as needed. Crusher will be mobile and no permanent buildings are planned at this time. The resulting slope at final reclamation will be gentler than the pre-mining slope. The site is vegetated with young sapling timber and understory brush and seedlings. Vegetation adjacent to the permit area within the property owned by the proponent will be retained to provide visual and noise buffers. The period of use of this quarry is estimated to be 30 years. Upon the realization of the proposed final site grade, the site is planned to revert back to timberland.

TOPSOIL BUDGET PLAN

The topography of the site and the subsequent planned post mining topography will result in adequate subsoil and topsoil retention to meet or exceed existing soil conditions on the site. In the unlikely event that there is a deficit in required soil to reclaim the site upon completion of the project, soil will be available to import from adjacent land owned by the proponent.

Field Quarry Delbert Field 3422 Highway 231 Valley, WA 99181 Permit #

TOPSOIL SALVAGE & REPLACEMENT PLAN

During the initial phase of the quarrying project, topsoil will be stockpiled adjacent to the quarry site as shown. During subsequent operations, the topsoil and overburden will be placed upon the area, which has been mined to the final slope grade in the excavation phase previous to the one from which the overburden is being removed.

REVEGETATION PLAN

After placement of the topsoil it will be revegetated by seeding with a mix of grass and forbs which are suited to the dry Eastern Washington site and Ponderosa pine seedlings. Seed will be placed on site at the rate of at least 15 pounds per acre. Tree seedlings will be planted at 450 trees per acre. Natural regeneration is also expected to supplement this planting. Noxious weeds will be controlled in accordance with state laws and requirements of Stevens County.

Date 8-4-03

Applicant Signature

Delbert Field 3422 Hwy 231 Valley, WA 99181

APR 19 2004

Geology and Earth

Delbert Field 3422 Highway 231 Valley, WA 99181

ield Quarry 9.09 acres

LEGAL DESCRIPTION

THAT PART OF GOVERNMENT LOTS 3 AND 4, THAT PART OF THE SW 1/4 OF THE NW 1/4, AND THAT PART OF THE SE 1/4 OF THE NW 1/4, ALL IN SECTION 2, T. 30 N., R. 40 E., W.M., STEVENS COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 2, FROM WHICH THE NORTHEAST CORNER THEREOF BEARS S 89°17'29" E 5312.34 FT.; THENCE S 70°06'10" E 905.85 FT. TO A 5/8" REBAR WITH 1-1/2" ALUMINUM CAP AND THE POINT OF BEGINNING FOR THIS DESCRIPTION; THENCE S 81°52'55" E 129.94 FT.; THENCE S 31°41'09" E 159.57 FT.; THENCE S 16°27'09" E 294.91 FT.; THENCE S 44°54'38" E 284.02 FT.; THENCE S 9°54'41" E 292.54 FT.; THENCE S 15°18'45" E 676.97 FT.; THENCE S 3°31'32" W 621.68 FT.; THENCE S 76°39'43" W 244.85 FT.; THENCE N 76°43'21" W 239.99 FT.; THENCE S 83°41'10" W 163.00 FT.; THENCE S 73°54'23" W 296.61 FT.; THENCE N 70°48'53" W 100.54 FT.; THENCE N 26°51'09" W 403.73 FT.; THENCE N 3°56'57" E 956.37 FT.; THENCE N 3°56'51" E 664.27 FT.; THENCE N 53°44'51" E 492.47 FT. TO THE POINT OF BEGINNING.

SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.

RECORD OF SURVEY

IN GOVERNMENT LOTS 3 AND 4, IN THE SW 1/4 OF THE NW 1/4, AND IN THE SE 1/4 OF THE NW 1/4, ALL IN SECTION 2, T. 30 N., R. 40 E., W.M.. STEVENS COUNTY, WASHINGTON.